

AMENDMENT TO THE CLAIMS

1. (Original) A method of discovery and display of one or more phones on a network, said method including the steps of

discovering a phone by means of a first protocol,

using discovered information to insert an icon representing the phone in the relevant position in a display of the topology of the network,

and discovering other devices on the network using a different protocol.
2. (Original) A method as claimed in claim 1 in which the phone is discovered using HTML, and the other devices are discovered using SNMP.
3. (Original) A method as claimed in claim 1 in which the display comprises a map of the network.
4. (Currently amended) A method as claimed in claim 3 in which, ~~on the map,~~ the icon phone is connected to the other parts of the network by a line ~~which represents the~~ that is representative of a transmission line connecting the telephone to the network.
5. (Currently amended) A method as claimed in claim 1 in which the display includes, adjacent ~~said the~~ phone icon, further information relating to the phone.
6. (Currently amended) A computer program on a computer readable medium or embodied in a carrier wave for use in discovery and display of one or more phones on a network, said computer program comprising:

a program step for establishing the topology of the network including ~~said one or more phones,~~ said the program step comprising a program step for establishing the

topology of the network using a first protocol, and a program step for establishing the topology of ~~said the~~ one or more phones using a different protocol, and

a program step for using this information to insert an icon representing a relevant phone into a display of the topology of the network.

7. (Original) A computer program as claimed in claim 6 in which the first protocol is SNMP and the second protocol is HTML.
8. (Original) A computer program as claimed in claim 6 including a program step for providing the topology in a form which may be displayed on a visual display unit as a map of the network.
9. (Currently amended) A computer program as claimed in claim 6 further including a program step ~~whereby on the map, where~~ the icon is connected to other parts of the network by a line ~~which represents the that is representative of the transmission~~ line connecting the telephone to the network.
10. (Currently amended) A computer program as claimed in claim 6 further including a program step for establishing ~~further~~ information relating to the phone, and a program step for providing ~~said the~~ information in a form ~~this information may be displayed for display~~ on the visual display unit.
11. (Currently amended) A computer program on a computer readable medium or embodied in a carrier wave for use in discovery of one or more phones on a network, said computer program comprising:

a program step ~~to use for using~~ SNMP to discover entities of the network, including managed devices, a telephone controller and ~~establishing~~ MAC addresses of unmanaged phones;

~~a program step to change for changing from SNMP to HTTP HTML;~~

~~a program step to load for loading a web page from the telephone controller;~~

~~a program step to parse for parsing information from the web page of the telephone controller to establish correspondence between particular Ethernet phones and MAC addresses a particular phone and a MAC address;~~

~~a program step to find ports with MAC address of phones for finding a port associated with the MAC address of the particular phone;~~

~~a program step to determine, in respect of a port on which a phone MAC address present, if there is only a single MAC address;~~

~~if yes, a program step to retrieve and display a phone icon on a network map and relevant details connected directly to the port;~~

~~if no, a program step to determine if there are two MAC addresses and if one is a phone;~~

~~if yes, a program step to provide an icon of a device with a second MAC address connected to the network via the phone;~~

~~if no, a program step to display an unmanaged aggregator display cloud.~~

a program step for retrieving relevant details of the particular phone, wherein retrieving the relevant details is conditioned upon determining that only the MAC address of the particular phone is associated with the port ;

a program step for displaying on a network map a phone icon connected to the network via a port icon that is representative of the port, wherein displaying the phone icon connected to a port icon is conditioned upon determining that only the MAC address of the particular phone is associated with the port;

a program step for displaying on the network map a device icon connected to the network via the phone and port icons, wherein displaying the device icon is conditioned upon determining that (i) two MAC addresses are associated with the port, and (ii) one of the two MAC addresses is associated with the phone; and

a program step to display on the network an unmanaged aggregator cloud icon connected to the network via the port icon, wherein displaying the unmanaged aggregator cloud icon is conditioned upon determining that (ii) at least two MAC addresses are associated with the port, and (ii) the at least two MAC addresses are not associated with the phone.

12. (Currently amended) Apparatus for use in the discovery of one or more phones on a network, comprising:

means to discover on the network, ~~including means to discover one or more phones and the other devices on the network using different protocols~~ a phone and another device using respective first and second protocols; and

means to use discovered information to insert an icon representing the phone in the relevant position in a display of the topology of the network.

13. (Currently amended) Apparatus as claimed in claim 12 in which ~~different~~ the first and second protocols respectively comprise HTML and SNMP.

14. (Original) Apparatus as claimed in claim 12 in which the display comprises a map of the network.

15. (Currently amended) Apparatus as claimed in claim 14 in which, ~~on the map,~~ the icon is connected to the other parts of the network by a line ~~which represents the~~ that is representative of a transmission line connecting the telephone to the network.

16. (Currently amended) Apparatus as claimed in claim 12 in which the display includes, adjacent ~~said~~ the phone icon, ~~further~~ information relating to the phone.
17. (New) A method as claimed in claim 1 in which discovering a phone by means of a first protocol comprises:
obtaining from the network an address of the phone using a first given protocol; and
responsive to obtaining the address, obtaining from the network the identity of the phone using a second given protocol.
18. (New) A method as claimed in claim 17 further comprising obtaining from the network details associated with the phone using the second given protocol.
19. (New) A method as claimed in claim 17 in which the first given protocol is HTML, and the second given protocol is SNMP.
20. (New) A method as claimed in claim 17 in which obtaining from the network the identity of the phone using a second given protocol comprises:
loading a web page from a telephone controller; and
parsing information from the web page to establish correspondence between a particular phone and a MAC address.